OIPE

```
         RAW SEQUENCE LISTING              DATE: 10/26/2001
         PATENT APPLICATION:  US/09/757,049A     TIME: 13:11:47

         Input Set : A:\#552399v2.asc
         Output Set: N:\CRF3\10262001\I757049A.raw
```

Does Not Comply
Corrected Diskette Needed

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W--> 1 (16)
     4 <110> APPLICANT: BERNSTEIN, Harold S.
     5          COUGHLIN, Shaun R.
     7 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING CELL CYCLE
     8          PROGRESSION
    10 <130> FILE REFERENCE: UCSF-020/02US
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/757,049A
    13 <141> CURRENT FILING DATE: 2001-01-08
    15 <150> PRIOR APPLICATION NUMBER: US 09/156,316
    16 <151> PRIOR FILING DATE: 1998-09-18
    18 <150> PRIOR APPLICATION NUMBER: US 60/060,688
    19 <151> PRIOR FILING DATE: 1997-09-22
    21 <160> NUMBER OF SEQ ID NOS: 50
    23 <170> SOFTWARE: PatentIn Ver. 2.1
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ERRORED SEQUENCES

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   401 <210> SEQ ID NO: 11
   402 <211> LENGTH: 2837
   403 <212> TYPE: DNA
   404 <213> ORGANISM: Homo sapiens
   406 <400> SEQUENCE: 11
E--> 407 ggcacgagag  gaagtggcgg  ctttgagtcc  ggtggcccaa  tcgctgttac  tacttctctg         60
   408 60
E--> 409 aagctcctct  cggctgcttg  ccgagacacc  ctgccgccaa  gatgcctcga  attatgatca        120
   410 120
E--> 411 aggggggcgt  atggaggaat  accgaggatg  aaattctgaa  agcagcggta  atgaaatatg        180
   412 180
E--> 413 ggaaaaatca  gtggtctagg  attgcctcat  tgctgcatag  aaaatcagca  aagcagtgca        240
   414 240
E--> 415 aagccagatg  gtatgaatgg  ctggatccaa  gcattaagaa  gacagaatgg  tccagagaag        300
   416 300
E--> 417 aagaggaaaa  actcttgcac  ttggccaagt  tgatgccaac  tcagtggagg  accattgctc        360
   418 360
E--> 419 caatcattgg  aagaacagcg  gcccagtgct  tagaacacta  tgaatttctt  ctggataaag        420
   420 420
E--> 421 ctgcccaaag  agacaatgaa  gaggaaacaa  cagatgatcc  acgaaaactt  aaacctggag        480
   422 480
E--> 423 aaatagatcc  aaatccagaa  acaaaaccag  cgcggcctga  tccaattgat  atggatgagg        540
   424 540
E--> 425 atgaacttga  gatgctttct  gaagccagag  cccgcttggc  taatactcag  ggaaagaagg        600
   426 600
E--> 427 ccaagaggaa  agcaagagag  aaacaattgg  aagaagcaag  acgtcttgct  gccctccaaa        660
   428 660
E--> 429 aaagaagaga  acttcgagca  gctggcatag  aaattcagaa  gaaaagaaaa  aggaagagag        720
   430 720
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```
                    RAW SEQUENCE LISTING              DATE: 10/26/2001
                    PATENT APPLICATION:  US/09/757,049A    TIME: 13:11:47

                    Input Set : A:\#552399v2.asc
                    Output Set: N:\CRF3\10262001\I757049A.raw

E--> 431 gagttgatta   taatgccgaa atcccatttg aaaaaaagcc tgcccttggt ttttatgata
     432 780
E--> 433 cttctgagga   aaactaccaa gctcttgacg cagatttcag gaaattaaga caacaggatc
     434 840
E--> 435 ttgatgggga   gctaagatct gaaaagaag gaagagatag aaaaaaagac aaacagcatt
     436 900
E--> 437 tgaaaaggaa   aaaagaatct gatttaccat cagctattct tcaaactagt ggtgtttctg
     438 960
E--> 439 aatttactaa   aaagagaagc aaactagtac ttcctgcccc tcagatttca gatgcagaac
     440 1020
E--> 441 tccaggaagt   tgtaaaagta ggccaagcga gtgaaattgc acgtcaaact gccgaggaat
     442 1080
E--> 443 ctggcataac   aaattctgct tccagtacac ttttgtctga gtacaatgtc accaacaaca
     444 1140
E--> 445 gcgttgctct   tagaacacca cgaacaccag cttcccagga cagaattctg caggaagccc
     446 1200
E--> 447 agaacctcat   ggccctcacc aatgtggaca ccccattgaa aggtggactt aatacccat
     448 1260
E--> 449 tgcatgagag   tgacttctca ggtgtaactc cacagcgaca agttgtacag actccaaaca
     450 1320
E--> 451 cagttctctc   tactccattc aggactcctt ctaatggagc tgaagggctg actccccgga
     452 1380
E--> 453 gtggaacaac   tcccaaacca gttattaact ctactccggg tagaactcct cttcgagaca
     454 1440
E--> 455 agttaaacat   taatcccgag gatggaatgg cagactatag tgatccctct tacgtgaagc
     456 1500
E--> 457 agatggaaag   agaatcccga gaacatctcc gtttagggtt gttgggcctt cctgcccta
     458 1560
E--> 459 agaatgattt   tgaaattgtt ctaccagaaa atgccgagaa ggagctggaa gaacgtgaaa
     460 1620
E--> 461 tagatgatac   ttacattgaa gatgctgctg atgtggatgc tcgaaagcag gccatacgag
     462 1680
E--> 463 atgcagagcg   tgtaaaggaa atgaaacgaa tgcataaagc tgtccagaaa gatctgccaa
     464 1740
E--> 465 gaccatcaga   agtaaatgaa actattctaa gacccttaaa tgtagaaccg cctttaacag
     466 1800
E--> 467 atttacagaa   aagtgaagaa ctaatcaaaa aagaaatgat cacaatgctt cattatgacc
     468 1860
E--> 469 ttctacatca   cccttatgaa ccatctggaa ataaaaaagg caaaactgta gggtttggta
     470 1920
E--> 471 ccaataattc   agagcacatt acctatctgg aacataatcc ttatgaaaag ttctccaaag
     472 1980
E--> 473 aagagctgaa   aaaggcccag gatgttttgg tgcaggagat ggaagtggtt aaacaaggaa
     474 2040
E--> 475 tgagccatgg   agagctctca agtgaagctt ataaccaggt gtgggaagaa tgctacagtc
     476 2100
E--> 477 aagtttata    tcttcctggg cagagccgct acacacgggc caatctggct agtaaaaagg
     478 2160
E--> 479 acagaattga   atcacttgaa aagaggctcg agataaacag gggtcacatg acgacagaag
```

```
                    RAW SEQUENCE LISTING            DATE: 10/26/2001
                    PATENT APPLICATION:  US/09/757,049A    TIME: 13:11:47

                    Input Set : A:\#552399v2.asc
                    Output Set: N:\CRF3\10262001\I757049A.raw


        480 2220
E--> 481 ccaagagggc   tgcaaagatg gaaaagaaga tgaaaatttt gcttgggggt taccagtctc
        482 2280
E--> 483 gtgctatggg   gctcatgaaa cagttgaatg acttatggga ccaaattgaa caggctcact
        484 2340
E--> 485 tggagttacg   cacttttgaa gaactcaaga aacatgaaga ttctgctatt ccccggaggc
        486 2400
E--> 487 tagagtgtct   aaaagaagac gttcagcgac aacaagaaag agaaaaggaa cttcaacata
        488 2460
E--> 489 gatatgctga   tttgctgctg gagaaagaga ctttaaagtc aaaattctga agtacagttt
        490 2520
E--> 491 atattctgtc   acaggattaa ttaattgccg gttttcatac tctagaaggc tgaaactgat
        492 2580
E--> 493 gtttatcttc   attgacaaat ttacccacca tctgtggttt ttcagttgtt tattttaaat
        494 2640
E--> 495 gatatcgatc   ttacacattc tgtgtataaa gaccttaact ccacaggacg gacattttag
        496 2700
E--> 497 agtttaaatt   attaaggcta tcattctttt agtaatgtca tatttgcaaa ctttttttagt
        498 2760
E--> 499 tttggccttt   aatttaaaaa gcctaatttt aaagtgctgc ctgtgagtaa ctcttgaata
        500 2820
E--> 501 aaaacaaaat                                              ataaaaa
        502 2837
        517 <210> SEQ ID NO: 13
        518 <211> LENGTH: 12
        519 <212> TYPE: DNA
        520 <213> ORGANISM: Artificial Sequence
        522 <220> FEATURE:
        523 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
        525 <400> SEQUENCE: 13
E--> 526 gatttaacat                                              aa
        527 12
        529 <210> SEQ ID NO: 14
        530 <211> LENGTH: 9
        531 <212> TYPE: DNA
        532 <213> ORGANISM: Artificial Sequence
        534 <220> FEATURE:
        535 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
        537 <400> SEQUENCE: 14
E--> 538 ttaacataa
        539 9
        541 <210> SEQ ID NO: 15
        542 <211> LENGTH: 15
        543 <212> TYPE: DNA
        544 <213> ORGANISM: Homo sapiens
        546 <400> SEQUENCE: 15
E--> 547 aataaaatca                                              aaatt
        548 15
        550 <210> SEQ ID NO: 16
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```
                    RAW SEQUENCE LISTING              DATE: 10/26/2001
                    PATENT APPLICATION:  US/09/757,049A   TIME: 13:11:47

                    Input Set : A:\#552399v2.asc
                    Output Set: N:\CRF3\10262001\I757049A.raw


        551 <211> LENGTH: 15
        552 <212> TYPE: DNA
        553 <213> ORGANISM: Homo sapiens
        555 <400> SEQUENCE: 16
E-->    556 aaaggggaac                                      acttt
        557 15
        559 <210> SEQ ID NO: 17
        560 <211> LENGTH: 55
        561 <212> TYPE: DNA
        562 <213> ORGANISM: Artificial Sequence
        564 <220> FEATURE:
        565 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
        567 <220> FEATURE:
W-->    568 <221> NAME/KEY: misc difference
        569 <222> LOCATION: (21)..(35)
        570 <223> OTHER INFORMATION: n = Any Nucleotide
        572 <400> SEQUENCE: 17
E-->    573 cgctcgaggg  atccgaattc  nnnnnnnnnn  nnnnntctag  aaagcttgtc   gacgc
        574 55
        576 <210> SEQ ID NO: 18
        577 <211> LENGTH: 20
        578 <212> TYPE: DNA
        579 <213> ORGANISM: Artificial Sequence
        581 <220> FEATURE:
        582 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
        584 <400> SEQUENCE: 18
E-->    585 gcgtcgacaa                                      gctttctaga
        586 20
        588 <210> SEQ ID NO: 19
        589 <211> LENGTH: 20
        590 <212> TYPE: DNA
        591 <213> ORGANISM: Artificial Sequence
        593 <220> FEATURE:
        594 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
        596 <400> SEQUENCE: 19
E-->    597 cgctcgaggg                                      atccgaattc
        598 20
        600 <210> SEQ ID NO: 20
        601 <211> LENGTH: 11
        602 <212> TYPE: DNA
        603 <213> ORGANISM: Artificial Sequence
        605 <220> FEATURE:
        606 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
        608 <400> SEQUENCE: 20
E-->    609 atttaacata                                      a
        610 11
        612 <210> SEQ ID NO: 21
        613 <211> LENGTH: 12
        614 <212> TYPE: DNA
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Jane (handwritten annotation)

RAW SEQUENCE LISTING   DATE: 10/26/2001
PATENT APPLICATION: US/09/757,049A   TIME: 13:11:47

Input Set : A:\#552399v2.asc
Output Set: N:\CRF3\10262001\I757049A.raw

```
      615 <213> ORGANISM: Artificial Sequence
      617 <220> FEATURE:
      618 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      620 <400> SEQUENCE: 21
E--> 621 tatttaacat                                              aa
      622 12
      624 <210> SEQ ID NO: 22
      625 <211> LENGTH: 12
      626 <212> TYPE: DNA
      627 <213> ORGANISM: Artificial Sequence
      629 <220> FEATURE:
      630 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      632 <400> SEQUENCE: 22
E--> 633 gctttaacat                                              as
      634 12
      636 <210> SEQ ID NO: 23
      637 <211> LENGTH: 12
      638 <212> TYPE: DNA
      639 <213> ORGANISM: Artificial Sequence
      641 <220> FEATURE:
      642 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      644 <400> SEQUENCE: 23
E--> 645 gagttaacat                                              aa
      646 12
      648 <210> SEQ ID NO: 24
      649 <211> LENGTH: 12
      650 <212> TYPE: DNA
      651 <213> ORGANISM: Artificial Sequence
      653 <220> FEATURE:
      654 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      656 <400> SEQUENCE: 24
E--> 657 gatgtaacat                                              aa
      658 12
      660 <210> SEQ ID NO: 25
      661 <211> LENGTH: 12
      662 <212> TYPE: DNA
      663 <213> ORGANISM: Artificial Sequence
      665 <220> FEATURE:
      666 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      668 <400> SEQUENCE: 25
E--> 669 gattgaacat                                              aa
      670 12
      672 <210> SEQ ID NO: 26
      673 <211> LENGTH: 12
      674 <212> TYPE: DNA
      675 <213> ORGANISM: Artificial Sequence
      677 <220> FEATURE:
      678 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
      680 <400> SEQUENCE: 26
```

same

RAW SEQUENCE LISTING   DATE: 10/26/2001
PATENT APPLICATION: US/09/757,049A   TIME: 13:11:47

Input Set : A:\#552399v2.asc
Output Set: N:\CRF3\10262001\I757049A.raw

```
E--> 681 gatttcacat                                              aa
     682 12
     684 <210> SEQ ID NO: 27
     685 <211> LENGTH: 12
     686 <212> TYPE: DNA
     687 <213> ORGANISM: Artificial Sequence
     689 <220> FEATURE:
     690 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     692 <400> SEQUENCE: 27
E--> 693 gatttaccat                                              aa
     694 12
     696 <210> SEQ ID NO: 28
     697 <211> LENGTH: 12
     698 <212> TYPE: DNA
     699 <213> ORGANISM: Artificial Sequence
     701 <220> FEATURE:
     702 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     704 <400> SEQUENCE: 28
E--> 705 gatttaatat                                              aa
     706 12
     708 <210> SEQ ID NO: 29
     709 <211> LENGTH: 12
     710 <212> TYPE: DNA
     711 <213> ORGANISM: Artificial Sequence
     713 <220> FEATURE:
     714 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     716 <400> SEQUENCE: 29
E--> 717 gatttaacct                                              aa
     718 12
     720 <210> SEQ ID NO: 30
     721 <211> LENGTH: 12
     722 <212> TYPE: DNA
     723 <213> ORGANISM: Artificial Sequence
     725 <220> FEATURE:
     726 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     728 <400> SEQUENCE: 30
E--> 729 gatttaacag                                              aa
     730 12
     732 <210> SEQ ID NO: 31
     733 <211> LENGTH: 12
     734 <212> TYPE: DNA
     735 <213> ORGANISM: Artificial Sequence
     737 <220> FEATURE:
     738 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
     740 <400> SEQUENCE: 31
E--> 741 gatttaacat                                              ca
     742 12
```

same

VERIFICATION SUMMARY   DATE: 10/26/2001
PATENT APPLICATION: US/09/757,049A   TIME: 13:11:48

Input Set : A:\#552399v2.asc
Output Set: N:\CRF3\10262001\I757049A.raw

```
L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:407 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:11
M:254 Repeated in SeqNo=11
L:526 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:13
L:538 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:9 SEQ:14
L:547 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:15 SEQ:15
L:556 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:15 SEQ:16
L:568 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:573 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:55 SEQ:17
L:585 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:20 SEQ:18
L:597 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:20 SEQ:19
L:609 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:11 SEQ:20
L:621 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:21
L:633 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:22
L:645 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:23
L:657 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:24
L:669 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:25
L:681 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:26
L:693 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:27
L:705 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:28
L:717 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:29
L:729 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:30
L:741 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:31
L:753 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:32
L:762 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:28 SEQ:33
L:771 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:26 SEQ:34
L:780 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:17 SEQ:35
L:792 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:36
L:804 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:37
L:817 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:38
L:829 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:39
L:841 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:40
L:853 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:41
L:865 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:42
L:877 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:43
L:889 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:44
L:901 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:45
L:913 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:46
M:254 Repeated in SeqNo=46
L:927 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:22 SEQ:47
L:939 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:48
M:254 Repeated in SeqNo=48
L:953 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:49
L:965 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:12 SEQ:50
```